APPENDIX IV

DATA FROM NICOTINE BIAS AND PRECISION STUDY

AUTOANALYZER VERSUS GAS CHROMATOGRAPH

BROWN AND WILLIAMSON TOBACCO CORPORATION

NICOTINE BIAS AND PRECISION FOR INDIVIDUAL BRANDS

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BRAND DESCRIPTION	PAD ANALYSIS			FILTER ANALYSIS					
	NUMBER OF RESULTS	MEAN RESULT	STANDARD DEVIATION	NUMBER OF RESULTS	MEAN RESULT	STANDARD DEVIATION	NUMBER OF RESULTS	MEAN RESULT	STANDARD DEVIATION
B&W MENTHOL 100									
BY AA	9	1.086	0.052						
BY GC	9	1.114	0.086						
MEAN BIAS	9	-0.028	0.065						
BARCLAY BOX, PETERSBURG									
BY AA	249	0.192	0.063	167	0.445	0.092	161	73.042	3.684
BY GC	248	0.201	0.077	167	0.531	0.129	167	74.856	4.638
MEAN BIAS	242	-0.012	0.031	167	-0.066	0.061	161	-1.765	2.701
BARCLAY MENTHOL 100, LOUISVILLE									
BY AA	115	0.322	0.083	97	0.339	0.043	97	52.439	4.444
BY GC	115	0.325	0.089	97	0.356	0.049	97	53.654	5.334
MEAN BIAS	115	-0.003	0.028	97	-0.016	0.033	97	-1.215	2.419
BARCLAY MENTHOL 100, PETERSBURG									
BY AA	104	0.373	0.069	42	0.409	0.044	42	51.499	3.985
BY GC	103	0.417	0.077	34	0.454	0.050	33	51.325	4.566
MEAN BIAS	103	-0.044	0.030	34	-0.042	0.028	33	0.426	2.137
BARCLAY MENTHOL, LOUISVILLE									
BY AA	83	0.132	0.074	72	0.288	0.044	70	69.871	4.793
BY GC	86	0.115	0.070	72	0.312	0.046	72	74.381	4.399
MEAN BIAS	83	0.017	0.016	72	-0.024	0.026	70	-4.509	2.451
BARCLAY MENTHOL, PETERSBURG									
BY AA	98	0.139	0.047	47	0.383	0.061	44	68.922	3.949
BY GC	96	0.130	0.050	39	0.386	0.052	39	70.236	3.476
MEAN BIAS	94	0.007	0.028	39	-0.002	0.040	38	-1.248	3.762
BARCLAY 100, LOUISVILLE									
BY AA	183	0.344	0.071	144	0.355	0.043	143	51.056	3.269
BY GC	179	0.335	0.063	132	0.358	0.043	127	52.330	3.927
MEAN BIAS	179	0.009	0.053	132	-0.003	0.039	127	-1.275	2.765
BARCLAY, LOUISVILLE									
BY AA	124	0.161	0.054	89	0.410	0.083	85	72.236	4.266
BY GC	126	0.139	0.053	89	0.459	0.084	89	76.872	4.330
MEAN BIAS	122	0.020	0.026	89	-0.049	0.042	85	-4.600	2.613
BARCLAY, PETERSBURG									
BY AA	231	0.175	0.052	142	0.426	0.074	135	72.631	4.172
BY GC	240	0.175	0.063	142	0.478	0.102	142	75.378	4.595
MEAN BIAS	231	-0.002	0.029	140	-0.055	0.053	133	-2.590	2.799
BCR - 2									
BY AA	378	0.254	0.077	317	0.593	0.074	302	70.760	4.240
BY GC	383	0.244	0.064	298	0.643	0.081	290	73.167	4.309
MEAN BIAS	369	0.008	0.043	298	-0.052	0.065	280	-2.276	3.089
BELAIRE 100, PETERSBURG									
BY AA	39	0.840	0.127	33	0.575	0.045	33	40.786	3.294
BY GC	39	0.825	0.142	33	0.510	0.042	33	38.500	3.509
MEAN BIAS	39	0.015	0.049	33	0.064	0.031	33	2.285	1.679
BELAIRE, MACON									
BY AA	16	0.703	0.053	8	0.745	0.027	8	50.993	1.731
BY GC	13	0.749	0.059	8	0.702	0.013	5	50.070	1.941
MEAN BIAS	13	-0.060	0.040	8	0.043	0.016	5	1.910	0.732
BELAIRE, PETERSBURG									
BY AA	11	0.743	0.045	11	0.732	0.036	11	49.645	1.916
BY GC	11	0.734	0.063	11	0.703	0.040	11	48.968	2.634
MEAN BIAS	11	0.009	0.045	11	0.029	0.032	11	0.677	1.489

BROWN AND WILLIAMSON TOBACCO CORPORATION

NICOTINE BIAS AND PRECISION FOR INDIVIDUAL BRANDS

BRAND DESCRIPTION NRE	PAD ANALYSIS			FILTER ANALYSIS					
	NUMBER OF RESULTS	MEAN RESULT	STANDARD DEVIATION	NUMBER OF RESULTS	MEAN RESULT	STANDARD DEVIATION	NUMBER OF RESULTS	MEAN RESULT	STANDARD DEVIATION
BROADWAY 80 ISRAEL									
BY AA	8	1.095	0.054	8	0.559	0.039	8	33.771	1.153
BY GC	8	0.974	0.052	8	0.377	0.029	8	27.943	1.844
MEAN BIAS	8	0.121	0.047	8	0.181	0.016	8	5.828	0.902
CAMBRIDGE KS									
BY AA	8	0.106	0.047	10	0.434	0.049	6	82.633	4.216
BY GC	13	0.080	0.031	7	0.447	0.040	6	86.450	1.319
MEAN BIAS	8	0.027	0.025	7	-0.020	0.037			
CAMEL FILTER									
BY AA	8	1.120	0.101	8	0.701	0.035	8	38.575	1.424
BY GC	8	1.092	0.075	8	0.647	0.044	8	37.230	1.711
MEAN BIAS	8	0.028	0.069	8	0.054	0.024	8	1.345	1.491
CARLTON KS									
BY AA	7	0.149	0.018	10	0.432	0.041	7	73.591	2.518
BY GC	10	0.122	0.020	10	0.417	0.036	10	77.340	3.073
MEAN BIAS	7	0.036	0.018	10	0.015	0.031	7	-4.697	3.344
DOUBLE HAPPINESS KS, HONG KONG									
BY AA	8	1.869	0.139	8	0.859	0.055	8	31.506	1.196
BY GC	8	1.841	0.078	8	0.702	0.059	8	27.607	1.949
MEAN BIAS	8	0.028	0.086	8	0.156	0.029	8	3.900	1.095
DU MAURIER, LOUISVILLE									
BY AA	19	1.022	0.100	12	0.665	0.056	12	39.763	4.153
BY GC	16	0.977	0.122	12	0.575	0.080	9	36.641	4.949
MEAN BIAS	16	0.044	0.065	12	0.090	0.111	9	4.013	0.629
EUROPA 80 ISRAEL									
BY AA	8	1.174	0.084	8	0.739	0.044	8	38.642	0.455
BY GC	8	1.080	0.045	6	0.610	0.042	6	36.300	1.172
MEAN BIAS	8	0.094	0.067	6	0.137	0.025	6	2.359	1.351
GOLDEN LIGHTS KS									
BY AA	16	0.667	0.043	13	0.552	0.038	13	45.631	1.774
BY GC	13	0.723	0.107	8	0.517	0.038	8	42.251	5.471
MEAN BIAS	13	-0.047	0.111	8	0.054	0.039	8	4.191	4.380
GOLDEN LIGHTS 100									
BY AA	16	0.672	0.099	16	0.593	0.091	16	46.861	2.032
BY GC	12	0.710	0.092	12	0.542	0.091	11	42.885	3.971
MEAN BIAS	12	-0.046	0.092	12	0.067	0.033	11	4.787	3.670
KENT DELUXE 100									
BY AA	16	1.200	0.115	16	0.594	0.036	16	33.196	1.220
BY GC	11	1.241	0.166	13	0.511	0.027	11	29.008	2.639
MEAN BIAS	11	-0.066	0.079	13	0.090	0.020	11	4.499	1.440
KENT GOLDEN LIGHTS KS, PETERSBURG									
BY AA	41	0.555	0.084	37	0.502	0.046	37	47.278	2.616
BY GC	41	0.540	0.096	34	0.483	0.049	34	47.764	3.044
MEAN BIAS	41	0.015	0.037	34	0.019	0.026	34	-0.184	1.423
KENT GOLDEN LIGHTS 100, PETERSBURG									
BY AA	18	0.748	0.045	18	0.678	0.041	18	47.577	2.117
BY GC	17	0.718	0.081	18	0.646	0.035	17	47.423	2.565
MEAN BIAS	17	0.026	0.034	18	0.032	0.015	17	0.243	1.363
KENT GOLDEN LIGHTS 80, FINLAND									
BY AA	5	0.710	0.069	5	0.476	0.035	5	40.182	2.353
BY GC	5	0.836	0.072						
MEAN BIAS	5	-0.126	0.120						

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BROWN AND WILLIAMSON TOBACCO CORPORATION

NICOTINE BIAS AND PRECISION FOR INDIVIDUAL BRANDS

B DESCRIPTION	PAD ANALYSIS			FILTER ANALYSIS					
	NUMBER OF RESULTS	MEAN RESULT	STANDARD DEVIATION	NUMBER OF RESULTS	MEAN RESULT	STANDARD DEVIATION	NUMBER OF RESULTS	MEAN RESULT	STANDARD DEVIATION
KENT GOLDEN LIGHTS 80, PETERSBURG									
BY AA	16	0.693	0.118	14	0.650	0.052	14	48.768	3.259
BY GC	16	0.657	0.119	14	0.618	0.069	14	49.063	3.922
MEAN BIAS	16	0.036	0.042	14	0.032	0.042	14	-0.294	1.885
KENT III KS									
BY AA	16	0.276	0.032	13	0.495	0.044	13	64.163	2.381
BY GC	16	0.244	0.021	13	0.505	0.032	13	67.630	2.304
MEAN BIAS	16	0.032	0.031	13	-0.010	0.029	13	-3.468	2.775
KENT KS, AUSTRALIA									
BY AA	13	1.158	0.057	11	0.707	0.027	11	37.903	1.568
BY GC	13	1.070	0.062	11	0.553	0.093	11	34.159	3.484
MEAN BIAS	13	0.088	0.064	11	0.155	0.080	11	3.745	2.553
KENT KS, PETERSBURG									
BY AA	23	0.963	0.082	19	0.657	0.029	19	40.734	2.159
BY GC	23	0.958	0.098	16	0.579	0.057	16	38.595	1.524
MEAN BIAS	23	0.005	0.063	16	0.077	0.048	16	2.577	1.675
KENT MIC. II 100, PETERSBURG									
BY AA	5	1.146	0.050	5	0.638	0.062	5	35.722	2.363
BY GC	5	1.102	0.046	5	0.510	0.021	5	31.645	1.085
MEAN BIAS	5	0.044	0.043	5	0.128	0.052	5	4.076	1.491
KENT MIC. II, PETERSBURG									
BY AA	5	0.986	0.099						
BY GC	5	1.012	0.075						
MEAN BIAS	5	-0.026	0.040						
KENT MIC. 100, PETERSBURG									
BY AA	5	1.120	0.031						
BY GC	5	1.204	0.113						
MEAN BIAS	5	-0.084	0.111						
KENT MICRONITE II KS									
BY AA	16	0.973	0.076	13	0.615	0.035	13	38.676	1.360
BY GC	16	0.964	0.078	13	0.528	0.048	13	35.182	2.367
MEAN BIAS	16	0.009	0.034	13	0.088	0.043	13	3.494	1.442
KENT 80, AUSTRALIA									
BY AA	5	1.006	0.194						
BY GC	5	0.864	0.202						
MEAN BIAS	5	0.142	0.104						
KENT 80, AUSTRIA									
BY AA	24	1.114	0.201	12	0.651	0.054	12	39.143	1.026
BY GC	24	1.045	0.192	12	0.560	0.045	12	36.734	1.646
MEAN BIAS	24	0.068	0.048	12	0.091	0.046	12	2.409	1.297
KENT 80, FINLAND									
BY AA	5	0.974	0.237	5	0.548	0.131	5	34.053	1.977
BY GC	5	1.036	0.213						
MEAN BIAS	5	-0.062	0.101						
KOOL BOX 1/4-1/14 4XET, PETERSBURG									
BY AA	8	1.381	0.070	8	0.677	0.051	8	36.439	1.703
BY GC	8	1.146	0.029	8	0.569	0.045	8	33.129	1.714
MEAN BIAS	8	0.035	0.070	8	0.109	0.032	8	3.310	0.894
KOOL BOX 1/4-1/8 DET, PETERSBURG									
BY AA	5	1.308	0.096						
BY GC	5	1.100	0.094						
MEAN BIAS	5	0.208	0.019						
KOOL BOX 4XET, PETERSBURG									

BROWN AND WILLIAMSON TOBACCO CORPORATION

NICOTINE BIAS AND PRECISION FOR INDIVIDUAL BRANDS

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BRAND DESCRIPTION	——————PAD ANALYSIS——————			——————FILTER ANALYSIS——————					
	NUMBER OF RESULTS	MEAN RESULT	STANDARD DEVIATION	NUMBER OF RESULTS	MEAN RESULT	STANDARD DEVIATION	NUMBER OF RESULTS	MEAN RESULT	STANDARD DEVIATION
BY AA	99	1.209	0.196	76	0.733	0.091	75	38.926	5.652
BY GC	99	1.155	0.190	72	0.6060.076		71	35.820	6.491
MEAN BIAS	99	0.054*	0.054	72	0.131*	0.069	71	3.213	2.571
KOOL KING 85ET, MACON									
BY AA	80	1.151	0.202	64	0.673	0.090	64	37.860	4.474
BY GC	80	1.109	0.196	61	0.5360.074		61	33.695	5.200
MEAN BIAS	80	0.042*	0.047	61	0.138*	0.050	61	4.298	1.905
KOOL KINGS 4%ET, MACON									
BY AA	8	1.116	0.103	8	0.655	0.087	8	36.937	2.662
BY GC	8	1.126	0.095	8	0.6020.054		8	34.914	3.528
MEAN BIAS	8	-0.010	0.079	8	0.052*	0.062	8	2.023	1.556
KOOL KS, PANAMA									
BY AA	8	1.152	0.058	8	0.604	0.035	8	34.371	0.616
BY GC	8	1.129	0.071	8	0.4970.035		8	30.600	1.533
MEAN BIAS	8	0.024*	0.027	8	0.106*	0.037	8	3.771	1.637
KOOL KS, PHILLIPINES									
BY AA	6	1.467	0.093						
BY GC	6	1.275	0.112						
MEAN BIAS	6	0.192*	0.134						
KOOL LIGHT 100 65M1, MACON									
BY AA	16	0.960	0.079	16	0.704	0.037	16	42.518	2.681
BY GC	16	1.065	0.092	8	0.7490.030		8	42.523	1.508
MEAN BIAS	16	-0.105	0.027	8	-0.024*	0.016	8	1.658	0.514
KOOL LIGHT 100 95M1, MACON									
BY AA	72	0.895	0.088	72	0.710	0.047	72	44.310	2.068
BY GC	72	0.921	0.090	60	0.6660.062		60	41.874	2.034
MEAN BIAS	72	-0.026*	0.083	60	0.050*	0.054	60	2.501	2.256
KOOL LIGHT 100, PETERSBURG									
BY AA	99	0.812	0.121	79	0.670	0.074	79	45.360	3.535
BY GC	96	0.796	0.127	77	0.6380.067		74	44.877	3.388
MEAN BIAS	96	0.015*	0.066	77	0.031*	0.048	74	0.425	2.340
KOOL LIGHT, PETERSBURG									
BY AA	34	0.726	0.080	29	0.792	0.065	29	52.087	2.009
BY GC	31	0.711	0.074	29	0.7590.065		26	51.590	3.596
MEAN BIAS	31	0.012	0.038	29	0.033*	0.075	26	0.718	2.379
KOOL MILD 100, LOUISVILLE									
BY AA	63	0.904	0.100	53	0.629	0.070	50	40.922	2.700
BY GC	63	0.917	0.130	43	0.5470.056		40	38.716	3.098
MEAN BIAS	63	-0.013	0.085	43	0.083*	0.043	40	2.589	1.387
KOOL MILD, MACON									
BY AA	42	0.848	0.145	35	0.766	0.085	34	46.784	2.761
BY GC	38	0.812	0.120	34	0.6720.084		29	44.578	3.534
MEAN BIAS	38	0.018	0.070	34	0.096*	0.063	29	2.389	2.078
KOOL MILD, PETERSBURG									
BY AA	29	0.923	0.089	18	0.752	0.069	18	44.781	3.595
BY GC	29	0.903	0.095	18	0.6440.061		18	42.040	2.998
MEAN BIAS	29	0.020*	0.041	18	0.107*	0.054	18	2.741	2.179
KOOL REGULAR, LOUISVILLE									
BY AA	15	1.163	0.095						
BY GC	15	1.076	0.114						
MEAN BIAS	15	0.087*	0.104						
KOOL SUPER LIGHT KS, FINLAND									
BY AA	8	0.680	0.116						

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BROWN AND WILLIAMSON TOBACCO CORPORATION

NICOTINE BIAS AND PRECISION FOR INDIVIDUAL BRANDS

BRAND DESCRIPTION		PAD ANALYSIS			FILTER ANALYSIS					
		NUMBER OF RESULTS	MEAN RESULT	STANDARD DEVIATION	NUMBER OF RESULTS	MEAN RESULT	STANDARD DEVIATION	NUMBER OF RESULTS	MEAN RESULT	STANDARD DEVIATION
	BY GC	8	0.645	0.125						
	MEAN BIAS	8	0.035	0.036						
KOOL SUPERLIGHTS 100, PETERSBURG										
	BY AA	5	0.814	0.038	5	0.562	0.037	5	40.828	1.242
	BY GC	5	0.798	0.043	5	0.522	0.018	5	39.564	0.889
	MEAN BIAS	5	0.016	0.011	5	0.040	0.020	5	1.264	0.968
KOOL ULTRA 100, LOUISVILLE										
	BY AA	83	0.503	0.085	59	0.451	0.060	59	47.183	4.248
	BY GC	74	0.539	0.089	47	0.443	0.061	38	45.375	3.571
	MEAN BIAS	74	-0.048	0.062	47	-0.020	0.041	38	0.844	1.903
KOOL ULTRA, LOUISVILLE										
	BY AA	73	0.210	0.046	47	0.368	0.107	47	62.970	5.038
	BY GC	68	0.215	0.049	35	0.374	0.061	30	65.083	4.276
	MEAN BIAS	68	-0.007	0.034	35	-0.031	0.037	30	-2.158	2.559
KOOL 100, MACON										
	BY AA	12	1.033	0.102	10	0.711	0.038	10	39.873	1.116
	BY GC	10	0.975	0.094	10	0.587	0.059	8	36.754	1.667
	MEAN BIAS	10	0.046	0.051	10	0.124	0.041	8	3.005	1.629
KOOL 100, PETERSBURG										
	BY AA	8	1.012	0.057						
	BY GC	8	1.005	0.072						
	MEAN BIAS	8	0.007	0.028						
KOOL 100, PHILLIPINES										
	BY AA	5	1.626	0.160						
	BY GC	5	1.472	0.218						
	MEAN BIAS	5	0.154	0.145						
KOOL, MACON										
	BY AA	10	1.264	0.103	10	0.747	0.067	10	37.140	1.579
	BY GC	7	1.167	0.078	10	0.421	0.072	7	33.460	2.202
	MEAN BIAS	7	0.070	0.031	10	0.124	0.020	7	3.191	1.088
KSL - 3										
	BY AA	410	0.547	0.075	301	0.442	0.056	300	53.812	2.991
	BY GC	395	0.548	0.083	283	0.579	0.071	272	51.593	4.488
	MEAN BIAS	395	-0.002	0.066	283	0.065	0.063	272	2.246	3.757
L&M KS										
	BY AA	16	1.044	0.111	15	0.581	0.054	15	35.551	2.112
	BY GC	15	1.022	0.122	15	0.475	0.052	15	31.815	2.658
	MEAN BIAS	15	0.034	0.102	15	0.106	0.049	15	3.736	1.372
L&M LIGHTS KS										
	BY AA	20	0.908	0.123	16	0.794	0.057	16	44.975	3.806
	BY GC	20	0.895	0.150	16	0.716	0.083	16	44.765	3.829
	MEAN BIAS	20	0.013	0.043	16	0.078	0.062	16	2.210	2.034
LARK MILDS										
	BY AA	8	0.856	0.057						
	BY GC	8	0.840	0.067	8	0.160	0.019	8	15.997	1.377
	MEAN BIAS	8	0.016	0.029						
LUCKY STRIKE 80, PETERSBURG										
	BY AA	5	1.318	0.112						
	BY GC	5	1.298	0.071						
	MEAN BIAS	5	0.020	0.042						
LUCKY STRIKE, RED STRIPE, PET.										
	BY AA	24	1.164	0.071	19	0.741	0.067	19	38.969	1.554
	BY GC	24	1.130	0.080	16	0.633	0.042	16	37.052	1.942

BROWN AND WILLIAMSON TOBACCO CORPORATION

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BY DESCRIPTION	PAD ANALYSIS			FILTER ANALYSIS					
	NUMBER OF RESULTS	MEAN RESULT	STANDARD DEVIATION	NUMBER OF RESULTS	MEAN RESULT	STANDARD DEVIATION	NUMBER OF RESULTS	MEAN RESULT	STANDARD DEVIATION
NEWPORT 80, FINLAND									
BY AA	8	1.146	0.035	8	0.711	0.037	8	38.277	1.002
BY GC	8	1.057	0.039	8	0.5870	0.047	8	35.678	1.593
MEAN BIAS	8	0.089*	0.017	8	0.124*	0.028	8	2.600	0.874
NON KS									
BY AA	13	0.181	0.035	15	0.368	0.030	12	67.245	3.343
BY GC	16	0.151	0.033	15	0.3570	0.033	15	70.961	4.236
MEAN BIAS	13	0.037*	0.032	15	0.011	0.023	12	-4.598	4.081
NON 100									
BY AA	16	0.236	0.060	13	0.355	0.034	12	60.385	4.451
BY GC	14	0.223	0.053	13	0.3750	0.022	10	62.500	3.004
MEAN BIAS	14	0.007	0.019	13	-0.019*	0.026	10	-0.882	2.246
PALL MALL EXT LT									
BY AA	8	0.729	0.042	8	0.749	0.025	8	50.700	1.766
BY GC	8	0.701	0.041	8	0.6600	0.030	8	48.500	1.475
MEAN BIAS	8	0.027*	0.027	8	0.089*	0.021	8	2.200	0.876
PALL MALL EXTRA LIGHTS KS									
BY AA	10	0.631	0.055	8	0.746	0.067	8	54.386	1.675
BY GC	10	0.561	0.038	8	0.6220	0.065	8	52.584	1.924
MEAN BIAS	10	0.070*	0.046	8	0.124*	0.053	8	1.803	1.329
RALEIGH LIGHTS, PETERSBURG									
BY AA	25	0.767	0.097	22	0.766	0.074	22	50.132	2.150
BY GC	25	0.722	0.095	22	0.6850	0.073	22	48.927	2.648
MEAN BIAS	25	0.045*	0.036	22	0.080*	0.049	22	1.206	1.802
F GH LONG LIGHTS, PETERSBURG									
BY AA	14	0.736	0.119	8	0.764	0.031	8	50.451	0.345
BY GC	14	0.696	0.110	8	0.6990	0.029	8	50.452	1.837
MEAN BIAS	14	0.040*	0.040	8	0.065*	0.035	8	-0.001	1.805
RALEIGH PLAIN, LOUISVILLE									
BY AA	15	1.429	0.077						
BY GC	12	1.324	0.122						
MEAN BIAS	12	0.118*	0.087						
RALEIGH 100, PETERSBURG									
BY AA	11	1.212	0.110	9	0.787	0.082	9	39.192	0.922
BY GC	11	1.130	0.083	9	0.6290	0.045	9	35.963	1.495
MEAN BIAS	11	0.082*	0.080	9	0.158*	0.053	9	3.229	1.413
RALEIGH, PETERSBURG									
BY AA	11	1.055	0.078	9	0.686	0.055	9	39.532	1.360
BY GC	11	0.975	0.049	9	0.5470	0.039	9	36.122	2.111
MEAN BIAS	11	0.079*	0.069	9	0.139*	0.053	9	3.410	2.107
SALEM KS									
BY AA	21	1.115	0.094	15	0.723	0.042	15	39.271	1.461
BY GC	21	1.065	0.121	15	0.5720	0.047	15	34.972	2.892
MEAN BIAS	21	0.050*	0.091	15	0.151*	0.050	15	4.299	2.332
SALEM LIGHTS KS									
BY AA	16	0.636	0.059	16	0.684	0.052	16	51.878	2.018
BY GC	16	0.611	0.045	16	0.6180	0.037	16	50.300	1.972
MEAN BIAS	16	0.024	0.063	16	0.066*	0.033	16	1.579	1.935
TAREYTON KS									
BY AA	22	1.035	0.059	12	0.386	0.022	12	15.011	1.320
BY GC	22	1.030	0.125	18	0.3510	0.016	18	13.072	1.472
MEAN BIAS	22	0.005	0.103	10	0.038*	0.015	10	2.533	1.325

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BRAND DESCRIPTION ARE	PAD ANALYSIS			FILTER ANALYSIS					
	NUMBER OF RESULTS	MEAN RESULT	STANDARD DEVIATION	NUMBER OF RESULTS	MEAN RESULT	STANDARD DEVIATION	NUMBER OF RESULTS	MEAN RESULT	STANDARD DEVIATION
TIME 80, ISRAEL									
BY AA	8	1.160	0.037	8	0.660	0.031	8	34.263	1.426
BY GC	8	1.039	0.045	6	0.5020.038		6	32.636	1.883
MEAN BIAS	8	0.121*	0.044	6	0.160*	0.028	6	3.480	0.693
TRIUMPH KS									
BY AA	8	0.292	0.033	8	0.577	0.035	8	66.448	1.958
BY GC	8	0.291	0.026	8	0.5950.030		8	67.172	1.707
MEAN BIAS	8	0.001	0.022	8	-0.017	0.036	8	-0.724	1.697
TRUE KS									
BY AA	14	0.459	0.039	12	0.472	0.031	12	51.273	1.826
BY GC	14	0.454	0.037	12	0.4370.046		12	49.413	2.264
MEAN BIAS	14	0.006	0.026	12	0.036*	0.028	12	1.859	1.854
TRUE KS, PETERSBURG									
BY AA	21	0.585	0.050	19	0.588	0.038	19	50.575	2.377
BY GC	21	0.610	0.079	16	0.5810.065		16	50.123	2.372
MEAN BIAS	21	-0.026*	0.054	16	0.009	0.058	16	0.951	1.206
TRUE 100									
BY AA	8	0.559	0.039	8	0.547	0.029	8	50.414	1.412
BY GC	8	0.574	0.036	8	0.5320.026		8	48.159	1.698
MEAN BIAS	8	-0.015	0.024	8	0.035*	0.035	8	2.255	1.038
VANTAGE KS									
BY AA	34	0.692	0.048	26	0.897	0.045	26	56.725	2.048
BY GC	29	0.679	0.055	26	0.8480.109		21	55.323	2.440
MEAN BIAS	29	0.020*	0.039	26	0.049*	0.110	21	1.452	1.653
VANTAGE MENTHOL KS									
BY AA	10	0.680	0.039						
BY GC	10	0.688	0.105						
MEAN BIAS	10	-0.008	0.088						
VICEROY KS, GUATEMALA									
BY AA	6	0.860	0.069	6	0.442	0.028	6	33.969	1.800
BY GC	6	0.733	0.085	6	0.2970.033		6	28.836	1.951
MEAN BIAS	6	0.127*	0.027	6	0.145*	0.008	6	5.133	0.274
VICEROY KS, HAITI									
BY AA	6	1.038	0.066	6	0.625	0.045	6	37.568	1.183
BY GC	6	0.902	0.053	6	0.4330.047		6	32.417	2.340
MEAN BIAS	6	0.137*	0.074	6	0.192*	0.084	6	5.151	2.142
VICEROY KS, PANAMA									
BY AA	8	1.250	0.877	8	0.685	0.044	8	35.347	3.191
BY GC	8	1.209	0.069	8	0.5340.027		8	30.650	1.190
MEAN BIAS	8	0.041*	0.034	8	0.151*	0.067	8	4.697	2.569
VICEROY LIGHTS, PETERSBURG									
BY AA	8	0.599	0.075	8	0.517	0.058	8	49.583	1.856
BY GC	8	0.607	0.083	8	0.5300.027		8	46.763	2.843
MEAN BIAS	8	-0.009	0.045	8	0.058*	0.036	8	2.820	2.402
VICEROY LONG LIGHTS, PETERSBURG									
BY AA	8	0.654	0.039	8	0.699	0.049	8	51.648	1.487
BY GC	8	0.655	0.051	8	0.5970.051		8	47.694	2.720
MEAN BIAS	8	-0.001	0.036	8	0.101*	0.026	8	3.953	2.334
VICEROY RICH LIGHTS 100, PETERSBURG									
BY AA	30	0.801	0.155	30	0.755	0.119	30	46.745	4.478
BY GC	30	0.787	0.144	30	0.6980.110		30	47.144	4.630
MEAN BIAS	30	0.014	0.055	30	0.057*	0.045	30	1.601	3.731

BROWN AND WILLIAMSON TOBACCO CORPORATION

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B. DESCRIPTION ARE	───PAD ANALYSIS───			───FILTER ANALYSIS───					
	NUMBER OF RESULTS	MEAN RESULT	STANDARD DEVIATION	NUMBER OF RESULTS	MEAN RESULT	STANDARD DEVIATION	NUMBER OF RESULTS	MEAN RESULT	STANDARD DEVIATION
VICEROY RICH LIGHTS, JAPAN									
BY AA	37	1.011	0.085	21	0.250	0.017	21	20.166	1.628
BY GC	36	0.974	0.090	21	0.227	0.022	20	19.235	2.149
MEAN BIAS	36	0.038*	0.056	21	0.024*	0.018	20	0.897	1.094
VICEROY RICH LIGHTS, PETERSBURG									
BY AA	16	0.685	0.090	13	0.710	0.067	13	50.710	2.073
BY GC	16	0.678	0.095	13	0.635	0.058	13	48.377	3.232
MEAN BIAS	16	0.007	0.051	13	0.075*	0.048	13	2.333	1.692
VICEROY 100, LOUISVILLE									
BY AA	16	1.152	0.112	15	0.757	0.082	13	39.531	2.014
BY GC	16	1.083	0.102	15	0.610	0.080	13	35.837	2.468
MEAN BIAS	16	0.069*	0.049	15	0.147*	0.037	13	3.694	0.871
VICEROY 100, PETERSBURG									
BY AA	10	1.114	0.104	5	0.688	0.064	5	38.805	0.983
BY GC	10	1.085	0.112	5	0.570	0.034	5	36.044	1.155
MEAN BIAS	10	0.029	0.076	5	0.118*	0.038	5	2.761	0.655
VICEROY 70, GUATEMALA									
BY AA	8	1.035	0.092	8	0.362	0.026	8	25.978	1.295
BY GC	8	0.855	0.102	8	0.232	0.028	8	21.405	1.465
MEAN BIAS	8	0.180*	0.024	8	0.130*	0.009	8	4.573	0.612
VICEROY, PETERSBURG									
BY AA	19	1.131	0.128	12	0.675	0.073	12	38.468	2.853
BY GC	19	1.076	0.134	12	0.571	0.053	12	35.831	2.995
MEAN BIAS	19	0.055*	0.045	12	0.104*	0.026	12	2.637	0.894
WINSTON KS									
BY AA	16	1.026	0.140	13	0.825	0.162	13	44.056	2.506
BY GC	16	0.943	0.133	13	0.685	0.146	13	41.708	2.697
MEAN BIAS	16	0.083*	0.069	13	0.140*	0.055	13	2.348	1.538
WINSTON KS, HONG KONG									
BY AA	8	1.425	0.086	8	0.839	0.145	8	36.810	4.268
BY GC	8	1.327	0.093	8	0.635	0.124	8	32.075	4.172
MEAN BIAS	8	0.098*	0.034	8	0.204*	0.026	8	4.736	0.670
WINSTON LIGHTS KS, HONG KONG									
BY AA	6	0.862	0.026	6	0.755	0.031	6	46.694	0.747
BY GC	6	0.777	0.044	6	0.600	0.044	6	43.565	0.829
MEAN BIAS	6	0.085*	0.030	6	0.155*	0.036	6	3.129	0.925
WINSTON LIGHTS 80, SAUDI ARABIA									
BY AA	8	0.891	0.059	8	0.864	0.037	8	49.244	1.358
BY GC	8	0.836	0.041	8	0.716	0.059	8	46.093	2.143
MEAN BIAS	8	0.055*	0.054	8	0.147*	0.049	8	3.151	1.140
WINSTON ULTRA LIGHT KS									
BY AA	8	0.427	0.079	5	0.570	0.023	5	57.104	4.261
BY GC	8	0.425	0.072	5	0.530	0.069	5	55.434	5.548
MEAN BIAS	8	0.003	0.014	5	0.040	0.061	5	1.669	3.386
WINSTON 100									
BY AA	16	1.091	0.066	16	0.793	0.038	16	42.109	1.308
BY GC	16	1.045	0.060	16	0.681	0.080	16	39.390	3.260
MEAN BIAS	16	0.046*	0.049	16	0.112*	0.065	16	2.719	2.954